1   ABSTRACT

2   A method for determining a polygonal intersection of a first polygon and a second

3   polygon. An intersection of the boundary of the first polygon with the boundary of the

4   second polygon is located by finding a point from which at least three portions of

5   boundaries extend. From this point, a first portion of the boundary of the polygonal

6   intersection is determined by identifying a portion of the boundary of the first polygon

7   that is located inside the second polygon. Each subsequent portion of the boundary of the

8   polygonal intersection is determined by selecting that portion of the boundary of either

9   the first polygon or the second polygon that (1) connects to a leading end of a current

10 portion of the boundary of the polygonal intersection and (2) forms the least angle with

11 the current portion of the boundary of the polygonal intersection.

12